

Dose Lightly: A Review of Pediatric Dosing Methods

Justin Bromm

Nuclear Medicine Technology, IU School of Medicine

There are currently no standardizations for pediatric dosimetry for nuclear medicine exams, which can lead to unnecessary radiation exposure to children. To see if there is a way to reduce pediatric radiation exposure without lowering the diagnostic qualities of nuclear medicine exam, multiple studies were reviewed. Four different dosing methods were examined to see how they compare in absorbed dose and diagnostic quality. One dosing protocol was found to give the lowest whole body and target organ dose. However, other dosing methods could yield higher quality of diagnostic images.

Advisor: Aslam Siddiqui, MD, Nuclear Medicine Department, IU Medical group